Amendments to the Specification

Please replace the paragraph beginning on page 8, line 9, with the following replacement paragraph:

The advantages and properties of the invention may be better understood by be reference to the following glossary of terms.

Please replace the paragraph beginning on page 16, line 19 with the following replacement paragraph:

The above mechanism assumes small inclusive cycles. To enhance the performance of the protocol for large inclusive cycles a heuristic approach is used, the approach is outlined below. If the source does not receive a response to a query, either a query response message or a query enhancement message, within a preset time-out referred to as the ENHANCEMENT_INTERVAL, the source issues a fresh query to enquire about nodes that

know of partial paths to the destination. Thus the source learns of alternate destinations for which it can issue a fresh query. Since the bordercast nodes have already been queried, the heuristic uses an alternate enhancement tree to attempt to reach a different subset of border nodes. Furthermore, when the bordercast tree is empty such an alternate enhancement tree request will be transmitted. For this alternative enhancement, a two-way bordercast tree (to be described in a subsequent subsection) may be used. The two-way bordercast tree is utilized to initiate a modified bordercast. The two-way tree is a shortest path tree such that all nodes in the tree are two-way nodes. Two-way nodes are those nodes in a querying node's outbound tree that

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can reach the querying node by using their own outbound trees. The advantage of using such a tree is that all nodes on this tree are known to have a reverse route to the current node, unlike the original bordercast tree, in which only the border nodes are required to be two-way nodes. This two-way feature is used when responding to a route query. It is to be noted that the leaves of the two-way tree may be different from the leaves of the bordercast tree described previously.